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### Plant object-orientated model formalization--case study: HDS plant design

HA Gabbar, K Suzuki... - Design Studies, 2003 - Elsevier

... of diagrams: Simplified Flow Diagram (SFD), Process Flow Diagram (PFD), and P&ID diagram, and this ... design model represented by the P&ID is the first step to start the **modeling process**. ... 3. In this figure, one main package is used to represent the HDS **plant process** (main CGU ...

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### Operator interface system using a plant object-oriented model

HA Gabbar, Y Shimada... - Systems engineering, 2001 - Wiley Online Library

... Computer-aided system engineering tool (CASE) is used to automate the **modeling process** and to manage the ... faulty state in the state diagram associated with the faulty component. ... Graphs (SDG) to represent and analyze the fault propagation within a **plant process** [Umeda et ...

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### [BOOK] 40 YEARS OF EXPERIENCE WITH LIQUID-LIQUID EXTRACTION EQUIPMENT IN THE NUCLEAR INDUSTRY

F Drain, R Vinoche... - 2003 - wmsym.org

... **Pump-mix type** (1) mixer-settlers, developed by SGN in the 1950s, are used in French ... **Process** diagram modeling is required to design liquid-liquid extraction units. ... Table I. Liquid-liquid extraction equipment in the La Hague reprocessing plants **Plant Process** section Equipment ...

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[PDF] from wmsym.org

### Hidden Markov model-based real-time transient identifications in nuclear power plants

KC Kwon, JH Kim... - International journal of ..., 2002 - Wiley Online Library

... Another example of SPDS is the Chernoff face, a **graphic** technique that maps multidimensional data into facial features ... to solve classifica- tion problems associated with time series input data such as speech signals or **plant process** signals, and ... **Mathematical modeling process** ...

Cited by 2 - Related articles - BL Direct - All 2 versions

### Dynamic event trees in accident sequence analysis: application to steam generator tube rupture

C Acosta... - Reliability Engineering & System Safety, 1993 - Elsevier

... As shown in the figure, the first task is the deterministic computation of the **plant process** variables ... The statetransition diagram presented in Ref ... system (EFWS), the high pressure injection system (HPIS), the safety injection signal (Ssignal or SI), the startup feed pump (SUFF), the ...

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### [PDF] On model libraries for thermo-hydraulic applications

J Eborn - PhD-Arbeit, Department of Automatic Control, Lund ..., 2001 - control.lth.se

... Also for thermal power plants block-diagram models have been used a lot. The book Ordys et al. ... They also make some simplifying assumptions that decouples the modules, eg, assuming constant pressure-drop across a **valve** which decouples it from the pressure downstream. ...

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[PDF] from lth.se

### Dynamic reliability: towards an integrated platform for probabilistic risk assessment

PE Labeau, C Smids... - Reliability Engineering & System ..., 2000 - Elsevier

... internal consistency and its applicability to the actual system being modelled, but also as an aid to the **modeling process** itself [15]. ... The state transition diagram provides a pictorial representation of the various states of the system, the communications between the states and the ...

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### [PDF] Evaluation of alarm reduction scheme using simulation software

R Gutierrez - 1999 - scholarworks.sjsu.edu

... printer output pages to pick out the serious alarms from normal **plant process** alarms. ... At many plants including the four reviewed, a **pump** start may be alarmed even ... automation) plant startup and shutdown, diagnostic capabilities, and computer generated **graphic** displays, the ...

Related articles - All 2 versions

[PDF] from sjsu.edu

### [BOOK] A preliminary investigation of PSA validation methods

Canada. Atomic Energy Control Board.. - 1995 - iaea.org

... 2.3 Go diagram ... For example, a cut-set containing multiple component failures, each due to maintenance errors (eg, incorrect **valve** line- out following test or repair) would reveal the potential for plant vulnerabilities associated with uniformly poor quality of operational practices. ...

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